



RAW SEQUENCE LISTING ERROR REPORT

#18

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/661,016A
Source: 1600 RUSH
Date Processed by STIC: 7/21/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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<http://www.uspto.gov/web/offices/pac/checker>

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 04/24/2003



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,016A

DATE: 07/21/2003

TIME: 14:07:36

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

4 <110> APPLICANT: Van Mellaert, Herman
 5 Botterman, Johan
 6 Van Pie, Jeroen
 7 Coos, Henk
 8 <120> TITLE OF INVENTION: RECOMBINANT PLANT EXPRESSING NON-COMPETITIVELY BINDING Bt
 INSECTICIDAL
 10 CRYSTAL PROTEINS
 11 <130> FILE REFERENCE: 021565-079
 W-> 13 <140> CURRENT APPLICATION NUMBER: 09/661,061A
 Q6> 15 <141> CURRENT FILING DATE: 2000-09-13
 17 <110> PCT/EP APPLICATION NUMBER: PCT/EP90/00905
 18 <111> PCT/EP FILING DATE: 1990-05-30
 20 <110> PCT/GB APPLICATION NUMBER: GB 89401499.2
 21 <111> PCT/GB FILING DATE: 1989-05-31
 E--> 23 <160> NUMBER OF SEQ ID NOS: 810 (seqr 7,12)
 25 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

390 <100> SEQ ID NO: 6
 391 <110> LENGTH: 1165
 392 <111> TYPE: PRT
 393 <112> ORGANISM: Bacillus thuringiensis p4
 394 <400> SEQUENCE: 6
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 396 1 5 10 15
 397 Asn Pro Lys Glu Ile Ile Leu Gly Glu Glu Arg Leu Glu Thr Gly Asn
 398 20 25 30
 399 Thr Val Ala Asp Ile Ser Leu Gly Leu Ile Asn Phe Leu Tyr Ser Asn
 400 35 40 45
 401 Phe Val Pro Gly Gly Phe Ile Val Gly Leu Leu Glu Leu Ile Trp
 402 50 55 60
 403 Gly Ile Gly Pro Ser Gln Trp Asp Ile Phe Leu Ala Gln Ile Glu
 404 55 60 65 70 75 80
 405 Gln Leu Ile Ser Gln Arg Ile Glu Glu Phe Ala Arg Asn Gln Ala Ile
 406 65 70 75 80 85 90 95
 407 Thr Arg Leu Glu Gly Leu Ser Asn Leu Tyr Lys Val Tyr Val Arg Ala
 408 100 105 110
 409 Ile Ser Asp Trp Glu Lys Asp Pro Thr Asn Pro Ala Leu Arg Glu Glu
 410 115 120 125
 411 Met Arg Ile Gln Phe Asn Asp Met Asn Ser Ala Leu Ile Thr Ala Ile
 412 130 135 140
 413 Pro Leu Phe Arg Val Gln Asn Tyr Glu Val Ala Leu Ser Val Tyr

pp 1,4,7,12

IMPORTANT: Please
 save file in ASCII text,
 Does Not Accept
 Corrected Data
 Required
 by
 Sequence
 Rules

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PATENT APPLICATION: US/09/661,016A

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TIME: 14:07:37

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

425	145	150	155	160
427	Val Gln Ala Ala Asn Leu His Ile Ser Ile Leu Arg Asp Val Ser Val			
428	165	170	175	
432	Ile Gly Glu Arg Trp Gly Tyr Asp Thr Ala Thr Ile Asn Asn Arg Tyr			
433	180	185	190	
434	Ser Asp Leu Thr Ser Leu Ile His Val Tyr Thr Asn His Cys Val Asp			
436	195	200	205	
438	Thr Tyr Asn Gin Gly Leu Arg Arg Leu Glu Gly Arg Phe Leu Ser Asp			
439	210	215	220	
441	Trp Ile Val Tyr Asn Arg Phe Arg Arg Gin Leu Thr Ile Ser Val Leu			
442	225	230	235	240
444	Asp Ile Val Ala Phe Phe Pro Asn Tyr Asp Ile Arg Thr Tyr Pro Ile			
445	245	250	255	
447	Gin Thr Ala Thr Gin Leu Thr Arg Glu Val Tyr Leu Asp Leu Pro Phe			
448	260	265	270	
450	Ile Asn Gln Asn Leu Ser Pro Ala Ala Ser Tyr Pro Thr Phe Ser Ala			
451	275	280	285	
452	Ala Glu Ser Ala Ile Ile Arg Ser Pro His Leu Val Asp Phe Leu Asn			
454	290	295	300	
455	Ser Phe Thr Ile Tyr Thr Asp Ser Leu Ala Arg Tyr Ala Tyr Trp Gly			
456	305	310	315	320
458	Gly His Leu Val Asn Ser Phe Arg Thr Gly Thr Thr Thr Asn Leu Ile			
460	325	330	335	
461	Arg Ser Pro Leu Tyr Gly Arg Gln Gly Asn Thr Glu Arg Pro Val Thr			
462	340	345	350	
463	Ile Thr Ala Ser Pro Ser Val Pro Ile Phe Arg Thr Leu Ser Tyr Ile			
465	355	360	365	
466	Thr Gly Leu Asp Asn Ser Asn Pro Val Ala Gly Ile Glu Gly Val Glu			
467	370	375	380	
471	Phe Glx Asn Thr Ile Ser Arg Ser Ile Tyr Arg Lys Ser Gly Pro Ile			
472	385	390	395	400
474	Asp Ser Phe Ser Gln Leu Pro Pro Gln Asp Ala Ser Val Ser Pro Ala			
475	405	410	415	
477	Ile Gly Tyr Ser His Arg Leu Cys His Ala Thr Phe Leu Glu Arg Ile			
478	410	420	430	
479	Ser Gly Pro Arg Ile Ala Gly Thr Val Phe Ser Trp Thr His Arg Ser			
481	435	440	445	
482	Ala Ser Pro Thr Asn Gln Val Ser Pro Ser Arg Ile Thr Gln Ile Pro			
484	450	455	460	
485	Trp Val Lys Ala His Thr Leu Ala Ser Gly Ala Ser Val Ile Lys Gly			
487	465	470	475	480
489	Pro Gly Phe Thr Gly Gly Asp Ile Leu Thr Arg Asn Ser Met Gly Gln			
490	485	490	495	
491	Leu Gly Thr Leu Arg Val Thr Phe Thr Gly Arg Leu Pro Gln Ser Tyr			
492	500	505	510	
493	Tyr Ile Arg Phe Arg Tyr Ala Ser Val Ala Asn Arg Ser Gly Thr Phe			
494	515	520	525	
495	Arg Tyr Ser Gln Pro Pro Ser Tyr Gly Ile Ser Phe Pro Lys Thr Met			
496	530	535	540	

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Output Set: N:\CRF4\07212003\I661016A.raw

501 Asp Ala Gly Glu Pro Leu Thr Ser Arg Ser Phe Ala His Thr Thr Leu
 502 545 550 555 560
 503 Phe Thr Pro Ile Thr Pro Ser Arg Ala Gln Glu Glu Phe Asp Leu Tyr
 504 565 570 575
 505 Ile Gln Ser Gly Val Tyr Ile Asp Arg Ile Glu Phe Ile Pro Val Thr
 506 580 585 590
 507 Ala Thr Phe Glu Ala Glu Tyr Asp Leu Glu Arg Ala Gln Lys Val Val
 508 595 600 605
 509 Asn Ala Leu Phe Thr Ser Thr Asn Gln Leu Gly Leu Lys Thr Asp Val
 510 610 615 620
 511 Thr Asp Tyr His Ile Asp Gln Val Ser Asn Leu Val Ala Cys Leu Ser
 512 625 630 635 640
 513 Asp Glu Phe Cys Leu Asp Glu Lys Arg Glu Leu Ser Glu Lys Val Lys
 514 645 650 655 660
 515 His Ala Lys Arg Leu Ser Asp Glu Arg Asn Leu Leu Gln Asp Pro Asn
 516 665 670 675
 517 Phe Arg Gly Ile Asn Arg Gln Pro Asp Arg Gly Trp Arg Gly Ser Thr
 518 675 680 685
 519 Asp Ile Thr Ile Gln Gly Gly Asp Asp Val Phe Lys Glu Asn Tyr Val
 520 690 695 700
 521 Thr Leu Pro Gly Thr Phe Asp Glu Cys Tyr Pro Thr Tyr Leu Tyr Glu
 522 705 710 715 720
 523 Lys Ile Asp Glu Ser Lys Leu Lys Ala Tyr Thr Arg Tyr Gln Leu Arg
 524 725 730 735
 525 Gly Tyr Ile Glu Asp Ser Gln Asp Leu Glu Ile Tyr Leu Ile Arg Tyr
 526 740 745 750
 527 Asn Ala Lys His Glu Ile Val Asn Val Pro Gly Thr Gly Ser Leu Trp
 528 755 760 765
 529 Pro Leu Ser Val Glu Asn Gln Ile Gly Pro Cys Gly Glu Pro Asn Arg
 530 770 775 780
 531 Cys Ala Pro His Leu Glu Trp Asn Pro Asp Leu His Cys Ser Cys Arg
 532 785 790 795 800
 533 Asp Gly Glu Lys Cys Ala His His Ser His His Phe Ser Leu Asp Ile
 534 805 810 815
 535 Asp Val Gly Cys Thr Asp Leu Asn Glu Asp Leu Gly Val Trp Val Ile
 536 815 820 830
 537 Phe Lys Ile Lys Thr Gln Asp Gly His Ala Arg Leu Gly Asn Leu Glu
 538 835 840 845
 539 Phe Leu Glu Glu Lys Pro Leu Leu Gly Glu Ala Leu Ala Arg Val Lys
 540 850 855 860
 541 Arg Ala Glu Lys Lys Trp Arg Asp Lys Arg Glu Thr Leu Gln Leu Glu
 542 865 870 875 880
 543 Thr Thr Ile Val Tyr Lys Glu Ala Lys Glu Ser Val Asp Ala Leu Phe
 544 Ser 885 890 895
 545 Val Asn Ser Gln Tyr Asp Arg Leu Gln Ala Asp Thr Asn Ile Ala Met
 546 895 900 910
 547 Ile His Ala Ala Asp Lys Arg Val His Arg Ile Arg Glu Ala Tyr Leu
 548 915 920 925
 549 Pro Glu Leu Ser Val Ile Pro Gly Val Asn Ala Ala Ile Phe Glu Glu

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574	930	935	940													
576	Ile	Glu	Ara	Asn	Ile	Phe	Thr	Ala	Phe	Ser	Leu	Tyr	Asp	Ala	Ara	Asn
577	945				950					955					960	
578	Ile	Ile	Lys	Asn	Gly	Asp	Phe	Asn	Asn	Gly	Leu	Leu	Cys	Trp	Asn	Val
579															975	
580																
581																
582	Lys	Gly	His	Val	Glu	Val	Glu	Gln	Asn	Asn	His	Arg	Ser	Val	Leu	
583															990	
584																
585	Val	Ile	Pro	Glu	Trp	Glu	Ala	Glu	Val	Ser	Gln	Glu	Val	Arg	Val	Cys
586																
587	995				1000						1005					
588	Pro	Gly	Arg	Gly	Tyr	Ile	Leu	Arg	Val	Thr	Ala	Tyr	Lys	Glu	Gly	Tyr
589	1010				1015						1020					
590	Gly	Glu	Gly	Cys	Val	Thr	Ile	His	Ile	Glu	Asn	Asn	Thr	Asp	Glu	
E-->	592	025	/025		1030				1035					1040		
594	Ile	Lys	Phe	Asn	Asn	Cys	Val	Glu	Glu	Val	Tyr	Pro	Asn	Asn	Thr	
595												1045		1050		1055
596	Val	Thr	Cys	Ile	Asn	Tyr	Thr	Ala	Thr	Gln	Glu	Glu	Tyr	Glu	Gly	Thr
597												1060		1065		1070
598	Tyr	Thr	Ser	Arg	Asn	Arg	Gly	Tyr	Asp	Glu	Ala	Tyr	Gly	Asn	Asn	Pro
599												1075		1080		1085
600	Ser	Val	Pro	Ala	Asp	Tyr	Ala	Ser	Val	Tyr	Glu	Glu	Lys	Ser	Tyr	Thr
601												1090		1095		1100
602	Asp	Arg	Arg	Arg	Glu	Asn	Pro	Cys	Glu	Ser	Asn	Arg	Gly	Tyr	Gly	Asp
E-->	606	105	/105		1110				1115					1120		
604	Tyr	Thr	Pro	Ile	Pro	Ala	Gly	Tyr	Val	Thr	Lys	Glu	Leu	Glu	Tyr	Phe
605											1115		1120		1125	
606	Pro	Gly	Thr	Asp	Lys	Val	Trp	Ile	Glu	Ile	Gly	Glu	Thr	Glu	Gly	Thr
607											1130		1135			
608	Ile	Ile	Val	Asp	Ser	Val	Glu	Ile	Gly	Glu	Ile	Gly	Thr	Glu	Gly	Thr
609											1140		1145		1150	
610	Phe	Ile	Val	Asp	Ser	Val	Glu	Leu	Leu	Leu	Met	Glu	Glu			
611											1150		1160		1165	
612	Asp	Arg	Arg	Arg	Glu	Asn	Pro	Cys	Glu	Ser	Asn	Arg	Gly	Tyr	Gly	Asp
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622	1									10					15	
623	Asn	Pro	Glu	Glu	Val	Leu	Leu	Asp	Gly	Glu	Arg	Ile	Ser	Thr	Gly	Asn
624											25				30	
625	Ser	Ser	Ile	Asp	Ile	Ser	Leu	Ser	Ile	Asp	Val	Gln	Phe	Met	Val	Ser
626											35				40	
627	Phe	Val	Pro	Gly	Gly	Gly	Phe	Leu	Val	Gly	Leu	Ile	Asp	Phe	Val	Trp
628											45					
629	50									55				60		
630	Gly	Ile	Val	Gly	Gly	Phe	Leu	Val	Gly	Leu	Ile	Asp	Phe	Val	Trp	
631																
632	Gln	Leu	Ile	Asn	Glu	Arg	Ile	Ala	Glu	Phe	Ala	Arg	Asn	Ala	Ile	
633															65	
634	Ala	Asn	Leu	Glu	Gly	Leu	Glu	Asn	Asn	Leu	Asn	Ile	Tyr	Val	Glu	Ala
635												70		75		80
636	Phe	Lys	Glu	Trp	Glu	Glu	Asp	Pro	Asn	Asn	Pro	Glu	Thr	Arg	Thr	Arg

OK

When numbering
first amino
acid on a line,
please begin
number directly
under first
letter of amino
acid

e.g. Gly |
1025 | Glu

Last numbers
on lines
are positioned
correctly

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,016A

DATE: 07/21/2003
TIME: 14:03:37

Input Set : A:\pto.amc.txt
Output Set: N:\CRF4\07212003\I661016A.raw

978	115	120	125
980	Val Ile Asp Arg Phe Arg Ile Leu Asp Gly Leu Leu Glu Arg Asp Ile		
981	120	125	140
982	Pro Ser Phe Arg Ile Ser Gly Phe Glu Val Pro Leu Leu Ser Val Tyr		
983	140	150	160
984	Ala Gln Ala Ala Asn Leu His Leu Ala Ile Leu Arg Asp Ser Val Ile		
985	160	170	175
986	Phe Gly Glu Arg Trp Gly Leu Thr Thr Ile Asn Val Asn Gln Asn Tyr		
987	175	185	190
988	Asn Arg Leu Ile Arg His Ile Asp Glu Tyr Ala Asp His Cys Ala Asn		
989	190	200	205
990	Thr Tyr Asn Arg Gly Leu Asn Asn Leu Pro Lys Ser Thr Tyr Gln Asp		
991	205	215	220
992	Trp Ile Thr Tyr Asn Arg Leu Arg Arg Asp Leu Thr Leu Thr Val Leu		
993	220	230	240
1001	Asp Ile Ala Ala Ile Phe Pro Asn Tyr Asp Asn Arg Arg Tyr Pro Ile		
1002	240	250	255
1004	Gln Pro Val Gly Gln Leu Thr Arg Glu Val Tyr Thr Asp Pro Leu Ile		
1005	255	265	270
1007	Asn Phe Asn Pro Gln Leu Gln Ser Val Ala Gln Leu Pro Thr Phe Asn		
1008	270	280	285
1010	Val Met Gln Ser Ser Ala Ile Arg Asn Pro His Leu Phe Asp Ile Leu		
1011	285	295	300
1013	Asn Asn Leu Thr Ile Ile Asp Trp Phe Ser Val Gly Arg Asn Phe		
1014	305	310	315
1016	Tyr Trp Gly Gly His Arg Val Ile Ser Ser Leu Ile Gly Gly Asn		
1017	315	320	325
1018	Ile Thr Ser Pro Ile Tyr Gly Arg Glu Ala Asn Gln Gln Pro Pro Arg		
1020	325	345	350
1021	Ser Phe Thr Phe Asn Gly Pro Val Phe Arg Thr Leu Ser Asn Pro Thr		
1022	355	360	365
1023	Leu Arg Leu Leu Gln Gln Pro Trp Pro Ala Pro Pro Phe Asn Leu Arg		
1026	370	375	380
1028	Gly Val Glu Gly Val Glu Phe Ser Thr Pro Thr Asn Ser Phe Thr Tyr		
1029	385	390	395
1031	Arg Gly Arg Gly Thr Val Asp Ser Leu Thr Glu Leu Pro Pro Glu Asp		
1032	405	410	415
1034	Asn Ser Val Pro Pro Arg Glu Gly Tyr Ser His Arg Leu Cys His Ala		
1035	420	425	430
1037	Thr Phe Val Gln Arg Ser Gly Thr Pro Phe Leu Thr Thr Gly Val Val		
1038	435	440	445
1040	Phe Ser Trp Thr His Arg Ser Ala Thr Leu Thr Asn Thr Ile Asp Pro		
1041	450	455	460
1043	Glu Arg Ile Asn Gln Ile Pro Leu Val Lys Gly Phe Arg Val Trp Gly		
1044	465	470	475
1046	Gly Thr Ser Val Ile Thr Gly Pro Gly Phe Thr Gly Gly Asp Ile Leu		
1047	485	490	495
1049	Arg Arg Asn Thr Phe Gly Asp Phe Val Ser Leu Gln Val Asn Ile Asn		
1050	500	505	510

RAW SEQUENCE LISTING

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Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

1052 Ser Pro Ile Thr Gln Arg Tyr Arg Leu Arg Phe Arg Tyr Ala Ser Ser
 1053 515 530 535
 1054 Arg Asp Ala Arg Val Ile Val Leu Thr Gly Ala Ala Ser Thr Gly Val
 1055 530 535 540
 1056 Gly Gly Gln Val Ser Val Asn Met Pro Leu Gln Lys Thr Met Glu Ile
 1057 540 550 555 560
 1058 Gly Glu Asn Leu Thr Ser Arg Thr Phe Arg Tyr Thr Asp Phe Ser Asn
 1059 555 565 570 575
 1060 Pro Phe Ser Phe Arg Ala Asn Pro Asp Ile Ile Gly Ile Ser Glu Gln
 1061 565 585 590
 1062 Pro Leu Phe Gly Ala Gly Ser Ile Ser Ser Gly Glu Leu Tyr Ile Asp
 1063 585 600 605
 1064 Lys Ile Glu Ile Ile Leu Ala Asp Ala Thr Phe Glu Ala Glu Ser Asp
 1065 600 610 615 620
 1066 Leu Glu Arg Ala Gln Lys Ala Val Asn Ala Leu Phe Thr Ser Ser Asn
 1067 610 630 635 640
 1068 Gln Ile Gly Leu Lys Thr Asp Val Thr Asp Tyr His Ile Asp Gln Val
 1069 635 645 650 655
 1070 Ser Asn Leu Val Asp Cys Leu Ser Asp Glu Phe Cys Leu Asp Glu Lys
 1071 645 665 670
 1072 Arg Glu Leu Ser Glu Lys Val Lys His Ala Lys Arg Leu Ser Asp Glu
 1073 665 675 680 685
 1074 Arg Asn Leu Glu Asp Pro Asn Phe Arg Gly Ile Asn Arg Gln Pro
 1075 685 700
 1076 Asp Arg Gly Trp Arg Gly Ser Thr Asp Ile Thr Ile Gln Gly Gly Asp
 1077 700 710 715 720
 1078 Asp Val Phe Lys Glu Asn Tyr Val Thr Leu Pro Gly Thr Val Asp Glu
 1079 715 725 730 735
 1080 Cys Tyr Pro Thr Tyr Leu Tyr Gln Lys Ile Asp Glu Ser Lys Leu Lys
 1081 735 740 745 750
 1082 Arg Tyr Thr Arg Tyr Glu Leu Arg Gly Tyr Ile Glu Asp Ser Gln Asp
 1083 745 755 760 765
 1084 Leu Glu Ile Tyr Leu Ile Arg Tyr Asn Ala Lys His Glu Ile Val Asn
 1085 765 770 775 780
 1086 Val Pro Gly Thr Gly Ser Leu Trp Pro Leu Ser Ala Gln Ser Pro Ile
 1087 775 785 790 795 800
 1088 Gly Lys Cys Gly Glu Pro Asn Arg Cys Ala Pro His Leu Glu Trp Asn
 1089 795 805 810 815
 1090 Pro Asp Leu Asp Cys Ser Cys Arg Asp Gly Glu Lys Cys Ala His His
 1091 805 820 825 830
 1092 Ser His His Phe Thr Leu Asp Ile Asp Val Gly Cys Thr Asp Leu Asn
 1093 825 835 840 845
 1094 Gln Asp Leu Gly Val Trp Val Ile Phe Lys Ile Lys Thr Gln Asp Gly
 1095 835 850 855 860
 1096 His Ala Arg Leu Gly Asn Leu Gln Phe Leu Glu Glu Lys Pro Leu Leu
 1097 855 870 875 880
 1098 Gly Glu Ala Leu Ala Arg Val Lys Arg Ala Glu Lys Lys Trp Arg Asp
 1099 865 880 890 895
 1100 Lys Arg Glu Lys Leu Gln Leu Glu Thr Asn Ile Val Tyr Lys Glu Ala

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1125 906 905 910
 1127 Lys Glu Ser Val Asp Ala Leu Phe Val Asn Ser Gln Tyr Asp Arg Leu
 1128 915 920 925
 1129 Gln Val Asp Thr Asn Ile Ala Met Ile His Ala Ala Asp Lys Arg Val
 1131 930 935 940
 1132 His Arg Ile Arg Glu Ala Tyr Leu Pro Glu Leu Ser Val Ile Pro Gly
 1134 945 950 955 960
 1135 Val Asn Ala Ala Ile Phe Glu Glu Leu Glu Gly Arg Ile Phe Thr Ala
 1137 965 970 975
 1138 Tyr Ser Leu Tyr Asp Ala Arg Asn Val Ile Lys Asn Gly Asp Phe Asn
 1140 980 985 990
 1141 Asn Gly Leu Leu Cys Trp Asn Val Lys Gly His Val Asp Val Glu Glu
 1143 995 1000 1005
 1144 Gln Asn Asn His Arg Ser Val Leu Val Ile Pro Glu Trp Glu Ala Glu
 1146 1010 1015 1020
 1147 Val Ser Gln Glu Val Arg Val Cys Pro Gly Arg Gly Tyr Ile Leu Arg
E--> 1148 025 1030 1035 1040^{OK}
 1149 Val Thr Ala Tyr Lys Glu Gly Tyr Gly Glu Gly Cys Val Thr Ile His
 1150 1045 1050 1055
 1151 Glu Ile Glu Asp Asn Thr Asp Glu Leu Lys Phe Ser Asn Cys Val Glu
 1153 1060 1065 1070
 1154 Glu Glu Val Tyr Pro Asn Asn Thr Val Thr Cys Asn Asn Tyr Thr Gly
 1156 1075 1080 1085
 1157 Thr Gln Glu Glu Tyr Glu Gly Thr Tyr Thr Ser Arg Asn Gln Gly Tyr
 1159 1090 1095 1100
 1160 Asp Glu Ala Tyr Gly Asn Asn Pro Ser Val Pro Ala Asp Tyr Ala Ser
E--> 1161 105 1110 1115 1120^{OK}
 1162 Val Tyr Glu Glu Lys Ser Tyr Thr Asp Gly Arg Arg Glu Asn Pro Cys
 1163 1125 1130 1135
 1164 Glu Ser Asn Arg Gly Tyr Asp Tyr Thr Pro Leu Pro Ala Gly Tyr
 1166 1140 1145 1150
 1167 Val Thr Lys Asp Leu Glu Tyr Phe Pro Glu Thr Asp Lys Val Trp Ile
 1168 1155 1160 1165
 1169 Gln Ile Gly Glu Thr Glu Gly Thr Phe Ile Val Asp Ser Val Glu Leu
 1170 1170 1175 1180
 1171 Leu Leu Met Glu Glu
E--> 1172 185 ?
E--> 1182 <210> SEQ ID NO: 1 This appeared directly after Sequence 8
 1183 <211> LENGTH: 3687
 1184 <210> TYPE: DNA
 1185 <215> ORGANISM: Bacillus thuringiensis
 1186 <230> FEATURE:
 1187 <231> NAME/KEY: CDS
 1188 <232> LOCATION: (1)..(3687)
E--> 1191 <400> SEQUENCE: 9?
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 1192 leu thr ser asn arg lys asn glu asn gli ile ile asn ala val ser
 1193 i 5 10 15
 1194 uat mat tcc gca caa atg gat cta tta cca gat gct cgt att gag gat 96
 1195 uat mat tcc gca caa atg gat cta tta cca gat gct cgt att gag gat

Same errors as previous pages!

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Output Set: N:\CRF4\07212003\I661016A.raw

1197 Asn His Ser Ala Gln Met Asp Leu Leu Pro Asp Ala Arg Ile Glu Asp
 1198 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995 1000 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050 1055 1060 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125 1130 1135 1140 1145 1150 1155 1160 1165 1170 1175 1180 1185 1190 1195 1200 1205 1210 1215 1220 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10185 10190 10195 10200 10205 10210 10215 10220 10225 10230 10235 10240 10245 10250 10255 10260 10265 10270 10275 10280 10285 10290 10295 10300 10305 10310 10315 10320 10325 10330 10335 10340 10345 10350 10355 10360 10365 10370 10375 10380 10385 10390 10395 10400 10405 10410 10415 10420 10425 10430 10435 10440 10445 10450 10455 10460 10465 10470 10475 10480 10485 10490 10495 10500 10505 10510 10515 10520 10525 10530 10535 10540 10545 10550 10555 10560 10565 10570 10575 10580 10585 10590 10595 10600 10605 10610 10615 10620 10625 10630 10635 10640 10645 10650 10655 10660 10665 10670 10675 10680 10685 10690 10695 10700 10705 10710 10715 10720 10725 10730 10735 10740 10745 10750 10755 10760 10765 10770 10775 10780 10785 10790 10795 10800 10805 10810 10815 10820 10825 10830 10835 10840 10845 10850 10855 10860 10865 10870 10875 10880 10885 10890 10895 10900 10905 10910 10915 10920 10925 10930 10935 10940 10945 10950 10955 10960 10965 10970 10975 10980 10985 10990 10995 11000 11005 11010 11015 11020 11025 11030 11035 11040 11045 11050 11055 110

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DATE: 07/21/2003

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Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

1262	275	280	285	
1264	qac gca att gaa gca aca aqq qta aat atg gca agt atg aat tgg tat			912
1265	Lys Ala Ile Gly Ala Thr Gly Val Asn Met Ala Ser Met Asn Trp Tyr			
1266	290	295	300	
1268	aat aat aat gca act tcc ttc ac	gcc ata gag	gtt	305
1269	Asn Asn Asn Ala Pro Ser Phe Ser Ala Ile Glu Ala Ala Ala Ile Arg			
1270	310	315	320	
1271	arg ccc cat cta ctt gat ttt cta gaa caa ctt aca att ttt aac act			325
1272	Ser Pro His Leu Leu Lys Phe Leu Glu Gln Leu Thr Ile Phe Ser Ala			
1273	335	340	345	
1274	1008	1010	1012	
1275	tca tca cga tgg agt aat act agg cat atg act tat tgg egg ggc cac			
1276	Ser Ser Arg Trp Ser Asn Thr Arg His Met Thr Tyr Trp Arg Gly His			
1277	340	345	350	
1278	arg att caa ttt egg cca ata cgg ptc ptc tta aat acc tpa acc cat			355
1279	Thr Ile Gln Ser Arg Pro Ile Gly Gly Leu Asn Thr Ser Thr His			
1280	355	360	365	
1281	ggg got acc aat act tct att aat ctt atc aca tta cgg tcc gca tct			
1282	Gly Ala Thr Asn Thr Ser Ile Asn Pro Val Thr Leu Arg Phe Ala Ser			
1283	370	375	380	
1284	1114	1116	1118	
1285	cgt gac gtt tat egg act gaa tct tat gca gga gtc ctt cta tgg gga			
1286	Arg Asp Val Tyr Arg Thr Glu Ser Tyr Ala Gly Val Leu Leu Trp Gly			
1287	385	390	395	
1288	1120	1122	1124	
1289	att tac ctt gaa ctt act cat tpt gtc act act gtt arg ttt aat ttt			
1290	Ile Tyr Leu Glu Pro Ile His Gly Val Pro Thr Val Arg Phe Asn Phe			
1291	405	410	415	
1292	1128	1130	1132	
1293	acc aac cct cag dat att tct gat aga cgt acc get aic tat agt caa			
1294	Thr Asn Pro Gln Asn Ile Ser Asp Arg Gly Thr Ala Asn Tyr Ser Gln			
1295	410	425	430	
1296	1134	1136	1138	
1297	cct tat gag tca ctt ggc ctt caa tta aac gat tca gaa act gaa tta			
1298	Pro Tyr Glu Ser Pro Gly Leu Gln Leu Lys Asp Ser Gln Thr Glu Leu			
1299	435	440	445	
1300	1140	1142	1144	
1301	cct tat gaa aca aca gaa cga cca aat tat gaa tct tcc agt ccc agg			
1302	Pro Pro Glu Thr Thr Gln Arg Pro Asn Tyr Glu Ser Tyr Ser His Arg			
1303	450	455	460	
1304	1148	1150	1152	
1305	tta tct cat ata ggt ata att tta cca tcc agg gtc aat gta ccc gta			
1306	Ile Ser His Ile Gly Ile Ile Leu Gln Ser Arg Val Asn Val Pro Val			
1307	465	470	475	
1308	1156	1158	1160	
1309	tat tct tgg acg cat cgt act gca gat cgt acg aat acg att gga cca			
1310	Tyr Ser Trp Thr His Arg Ser Ala Asp Arg Thr Asn Thr Ile Gly Pro			
1311	485	490	495	
1312	1164	1166	1168	
1313	aat aga atc acc caa att cca att gca aac gca tcc gca ctt cct caa			
1314	Asn Arg Ile Thr Gln Ile Pro Met Val Lys Ala Ser Glu Leu Pro Gln			
1315	500	505	510	
1316	1174	1176	1178	
1317	ggc acc act gtc gtt agt ggc cca gga ttt act ggt ggg gat att ctt			
1318	Gly Thr Thr Val Val Arg Gly Pro Gly Phe Thr Gly Gly Asp Ile Leu			
1319	515	520	525	
1320	1182	1184	1186	
1321	cga aga acg aat act ggt ggc ttt gga ccc ata aga gta act gtt aac			
1322	Arg Arg Thr Asn Thr Gly Gly Phe Gly Pro Ile Arg Val Thr Val Asn			
1323	530	535	540	

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1328 gga cca ita aca caa aga tat cat ata gga ttc cgc tat gct tca act 1680
 1329 Gly Pro Leu Thr Gln Arg Tyr Arg Ile Gly Phe Arg Tyr Ala Ser Thr
 1330 540 550 555 560
 1331 gta gat ttt gat ttc ttt gta tca cgt gaa ggt act act act gta aat aat 1728
 1332 Val Asp Phe Asp Phe Val Ser Arg Gly Gly Thr Thr Val Asp Asn
 1333 565 570 575
 1334 ttt aga ttc cta cct aca atg aac aat ggt gac gaa cta aaa tac gga 1776
 1335 Phe Arg Phe Leu Arg Thr Met Asn Ser Gly Asp Glu Leu Lys Tyr Gly
 1336 580 585 590
 1337 aat ttt gtg aga cgt gct ttt act aca ctt ttt act ttt aca caa att 1824
 1338 Asn Phe Val Arg Arg Ala Phe Thr Thr Pro Phe Thr Phe Thr Gln Ile
 1339 595 600 605
 1340 caa gat ata att cca acc ttt att caa ggc ctt aat gaa aat ggg gaa 1872
 1341 Gln Asp Ile Ile Arg Thr Ser Ile Gln Gly Leu Ser Gly Asn Gly Glu
 1342 610 615 620
 1343 gtg tat ata gat aia att gaa att att cca gtt act gca acc ttc gaa 1920
 1344 Val Tyr Ile Asp Lys Ile Glu Ile Ile Pro Val Thr Ala Thr Phe Glu
 1345 625 630 635 640
 1346 gca gaa tat gat tta gaa aga gag caa gag gog gtg aat gct ctg ttt 1968
 1347 Ala Glu Tyr Asp Leu Glu Arg Ala Gln Glu Ala Val Asn Ala Leu Phe
 1348 645 650 655
 1349 act aat acc aat cca aga aga ttg aat aca gat gtg aca gat tat cat 2016
 1350 Thr Asn Thr Asn Pro Arg Arg Leu Lys Thr Asp Val Thr Asp Tyr His
 1351 660 665 670
 1352 att gat caa gta tcc aat tta gtg ggg tgg tta tcc gat gaa ttc tgg 2064
 1353 Ile Asp Gln Val Ser Asn Leu Val Ala Cys Leu Ser Asp Glu Phe Cys
 1354 675 680 685
 1355 ttg gat gaa aag aga gaa tta ctt gag aat gtg aat ggg aat cca 2112
 1356 Leu Asp Glu Lys Arg Glu Leu Leu Glu Lys Val Lys Tyr Ala Lys Arg
 1357 690 695 700
 1358 ctc ayt gat gaa aca aac tta ctc caa gat cca aac ttc aca tcc atc 2160
 1359 Leu Ser Asp Glu Arg Asn Leu Leu Gln Asp Pro Asn Phe Thr Ser Ile
 1360 705 710 715 720
 1361 aat aag cca cca gag tcc ata tat act aat gag caa tcc aat ttc aca 2208
 1362 Asn Lys Gln Pro Asp Phe Ile Ser Thr Asn Glu Gln Ser Asn Phe Thr
 1363 725 730 735
 1364 tat atc cat gaa caa tat gaa ctt gga tgg tgg gga aat gag aac att 2256
 1365 Ser Ile His Glu Gln Ser Glu His Gly Trp Trp Gly Ser Glu Asn Ile
 1366 740 745 750
 1367 acc acc cag gaa ggg aat gag gta ttt aat gag aat tcc gtc aca cta 2304
 1368 Thr Ile Gln Glu Gly Asn Asp Val Phe Lys Glu Asn Tyr Val Thr Leu
 1369 755 760 765
 1370 ccc ggt aat ttt aat gag tgg ttt ccc aag tat tta ttt caa aat aat 2352
 1371 Pro Gly Thr Phe Asn Glu Cys Tyr Pro Thr Tyr Leu Tyr Gln Lys Ile
 1372 770 775 780
 1373 ggg gag tcc gaa tta aat gct tat act ccc tat caa tta aga ggg tat 2400
 1374 Gly Glu Ser Glu Leu Lys Ala Tyr Thr Arg Tyr Gln Leu Arg Gly Tyr
 1375 790 795 800
 1376 att gaa gat agt caa gat tta gag ata tat ttg att cgt tat aat ggg 2448

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1393	Ile	Glu	Asp	Ser	Gln	Asp	Leu	Glu	Ile	Tyr	Leu	Ile	Arg	Tyr	Asn	Ala
1394							805					810				815
1395	aaa	cat	gaa	aca	tgt	gat	gtt	cca	ggg	acc	gag	tcc	cta	tgg	cgc	ctt
1396	Lys	His	Glu	Thr	Leu	Asp	Val	Pro	Gly	Thr	Ctu	Ser	Leu	Trp	Pro	Leu
1397							810					815				820
1398	ttc	gtt	gaa	agc	cca	atc	gga	agg	tgc	gga	gaa	cgc	aat	cgt	gca	
1399	Ser	Val	Glu	Ser	Pro	Ile	Gly	Arg	Cys	Gly	Glu	Pro	Asn	Arg	Cys	Ala
1400							825					830				835
1401	caa	cat	ttt	gaa	tgg	aat	cct	gat	cta	gat	tgt	tcc	tgc	aga	gat	gga
1402	Pro	His	Phe	Glu	Trp	Asn	Pro	Asp	Leu	Asp	Cys	Ser	Cys	Arg	Asp	Gly
1403							835					840				845
1404	aaa	caa	cat	tgt	gat	cat	tcc	tct	tgg	gat	att	gat	gtt			
1405	Glu	Lys	Cys	Ala	His	His	His	His	Phe	Ser	Leu	Asp	Ile	Asp	Val	
1406							845					850				855
1407	gaa	aaa	tgt	gct	cat	cat	tcc	tct	tgg	gat	att	gat	gtt			
1408	Glu	Lys	Cys	Ala	His	His	His	His	Phe	Ser	Leu	Asp	Ile	Asp	Val	
1409							855					860				865
1410	ttt	gaa	aaa	tgt	cat	gac	aat	cta	ggg	gtt	tgt	tgg	gtt	tcc	aag	
1411	Gly	Cys	Thr	Asp	Leu	His	Glu	Asn	Leu	Gly	Val	Trp	Val	Phe	Lys	
1412							865					870				875
1413	att	aaq	acg	cag	gaa	gtt	cat	gca	aga	cta	ggg	aat	ctg	gaa	ttt	att
1414	Ile	Lys	Thr	Gln	Glu	Gly	His	Ala	Arg	Leu	Gly	Asn	Leu	Glu	Phe	Ile
1415							870					875				880
1416	gaa	gag	aaa	cca	tta	tta	gga	gaa	gca	ctt	tct	cgt	gtt	tgg	gtt	tcc
1417	Glu	Glu	Lys	Pro	Leu	Leu	Gly	Glu	Ala	Leu	Ser	Arg	Val	Lys	Arg	Ala
1418							885					890				895
1419	ttt	aaq	acg	cag	gaa	gtt	cat	gca	aga	cta	ggg	aat	ctg	gaa	ttt	att
1420	Ile	Lys	Thr	Gln	Glu	Gly	His	Ala	Arg	Leu	Gly	Asn	Leu	Glu	Phe	Ile
1421							890					895				900
1422	gaa	gag	aaa	cca	tta	tta	gga	gaa	gca	ctt	tct	cgt	gtt	tgg	gtt	tcc
1423	Glu	Glu	Lys	Pro	Leu	Leu	Gly	Glu	Ala	Leu	Ser	Arg	Val	Lys	Arg	Ala
1424							895					900				905
1425	ttt	aaq	acg	cag	gaa	gtt	cat	gca	aga	cta	ggg	aat	ctg	gaa	ttt	att
1426	Ile	Lys	Thr	Gln	Glu	Gly	His	Ala	Arg	Leu	Gly	Asn	Leu	Phe	Val	Asp
1427							900					905				910
1428	ata	caa	tat	ata	gaa	tta	gca	aat	gtt	gtt	gat	gtt	tta	tcc	gtt	gat
1429	Arg	Val	Tyr	Thr	Glu	Ala	Lys	Glu	Ala	Val	Asp	Ala	Leu	Phe	Val	Asp
1430							905					910				915
1431	tat	caa	tat	ata	gaa	tta	gca	aat	gtt	gtt	gat	gtt	tta	tcc	gtt	gat
1432	Ser	Gln	Tyr	Asp	Arg	Leu	Gln	Ala	Asp	Thr	Asn	Ile	Gly	Met	Ile	His
1433							910					915				920
1434							915					920				925
1435	gtt	gca	aat	ttt	gtt	cat	cgt	aat	cgt	aat	ttt	tca	gaa			
1436	Ala	Ala	Asp	Lys	Leu	Val	His	Arg	Ile	Arg	Glu	Ala	Tyr	Leu	Ser	Glu
1437							920					925				930
1438							925					930				935
1439	tta	cct	gtt	atc	cca	ggt	gtt	aat	gca	aat	ttt	gaa	gaa	tta	gaa	
1440	Leu	Pro	Val	Ile	Pro	Gly	Val	Asn	Ala	Glu	Ile	Phe	Glu	Glu	Leu	
1441							930					935				940
1442							935					940				945
1443	gtt	cac	att	atc	act	gca	atc	tcc	tta	tac	gat	gca	aat	gtc		
1444	Gly	His	Ile	Ile	Thr	Ala	Ile	Ser	Leu	Tyr	Asp	Ala	Arg	Asn	Val	
1445							940					945				950
1446	1010							1015					1020			
1447	gtt	aaa	sat	gtt	ggt	aat	aat	gga	tta	aca	tgt	tgg	aat	gtt		
1448	Val	Lys	Asn	Gly	Asp	Phe	Asn	Asn	Gly	Leu	Thr	Cys	Trp	Asn	Val	
1449							1020					1025				1030
1450							1025					1030				1035
1451	aaa	ggg	cat	gtt	gat	gtt	caa	cag	agg	cat	cat	gtt	tct			
1452	Lys	Gly	His	Val	Asp	Val	Gln	Gln	Ser	His	His	Arg	Ser	Asp	Leu	
1453							1030					1035				1040
1454							1035					1040				1045
1455	gtt	atc	cca	gaa	tgg	gaa	gca	gaa	gtt	tca	caa	gca	gtt	cgc	gtc	
1456	Val	Ile	Pro	Glu	Trp	Glu	Ala	Glu	Val	Ser	Gln	Ala	Val	Arg	Val	
1457							1040					1045				1050

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,016A

DATE: 07/21/2003
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Input Set : A:\pto.amc.txt
Output Set: N:\CRF4\07212003\I661016A.raw

1473	1055	1060	1065		3249	
1470	tgt ccc	ggg tat	ggc tat atc	ctt cgt gtc aca gag	tac aaa gag	
1471	Cys Pro	Gly Cys Gly Tyr	Il.	Leu Arg Val Thr Ala	Tyr Lys Glu	
1472	1070		1075		1080	
1473	gaa ttt	gga gag aac tcc	gtt acg atc cat gaa atc	gag aac aat		3294
1474	Gly Tyr	Gly Glu Gly Cys Va.	Thr Ile His Glu Ile	Glu Asn Asn		
1475	1085		1090		1095	
1476	aaa gag	gaa cta aac ttt	aaa aac cgt gaa gaa gag	gaa gtg tat		3329
1477	Thr Asp	Glu Leu Lys Phe Iys	Asn Arg Glu Glu	Glu Val Tyr		
1478	1100		1105		1110	
1479	cra acc	gat aca gga acg tpt	aat gat tat act gca	cac caa ggt		3384
1480	Fro Thr	Asp Thr Gly Thr Cys	Asn Asp Tyr Thr Ala	His Gln Gly		
1481	1115		1120		1125	
1482	ara pct	gga tgc pca gat gtt	tgt aat tcc cgt aat	gtt gga tat		3429
1483	Thr Ala	Gly Cys Ala Asp Aln	Cys Asn Ser Arg Asn	Ala Gly Tyr		
1484	1130		1135		1140	
1485	gag cat	gca tat gaa gtt gtt	act aca gca tct gtt	aat tac aaa		3474
1486	Glu Asp	Ala Tyr Glu Val Asp	Thr Thr Ala Ser Val	Asn Tyr Lys		
1487	1145		1150		1155	
1488	crg ast	tat gaa gaa gaa aac	tat aca gat gta aca	aga gat aat		3519
1489	Fro Thr	Tyr Glu Glu Ile Thr	Tyr Thr Asp Val Arg	Arg Asp Asn		
1490	1160		1165		1170	
1491	crt ggt	gaa tat gac aja ggg	tat gtc aat tat cca	cca gta cca		3564
1492	His Cys	Glu Tyr Asp Arg Gly	Tyr Val Asn Tyr Pro	Pro Val Pro		
1493	1175		1180		1185	
1494	crt ggt	tat gtg aca aca gag	tta gaa tac ttc cca	gaa aca gat		3609
1495	Ala Gly	Tyr Val Thr Lys Glu	Leu Glu Tyr Phe Pro	Glu Thr Asp		
1496	1190		1195		1200	
1497	ara gta	tgg att gag att ggg	gaa acg gaa gga aug	ttt att gta		3654
1498	Thr Val	Trp Ile Glu Ile Gly	Glu Thr Glu Gly Lys	Phe Ile Val		
1499	1205		1210		1215	
1500	cat aac	gtg gaa tta ctc ctc	atg gaa gaa tag			3687
1501	Asp Ser	Val Glu Leu Leu Leu	Met Glu Glu			
1502	1220		1225			

1503 .110 .SEQ ID NO: 10?

1506 .111 . LENGTH: 1226

1507 .112 . TYPE: PFT

1508 .113 . ORGANISM: Eschscholtzia californica

E--> 1510 <400> SEQUENCE: 10?

1511	Leu Thr Ser Asn Arg Lys Asn Glu Asn Glu Ile Ile Asn Ala Val Ser				
1512	10	10	15		
1513	15				
1514	Asn His Ser Ala Gln Met Asp Leu Leu Pro Asp Ala Arg Ile Glu Asp				
1515	20	25	30		
1516	Asn Leu Cys Ile Ala Glu Gly Asn Asn Ile Asp Pro Phe Val Ser Ala				
1517	30	35	40		
1518	40	45			
1519	Asn Thr Val Gln Thr Gly Il.	Asn Ile Ala Gly Arg Ile Leu Gly Val			
1520	50	55	60		
1521	Leu Gly Val Pro Phe Ala Gly Gln Leu Ala Ser Phe Tyr Ser Phe Leu				
1522	70	75	80		

RAW SEQUENCE LISTING

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Input Set : A:\pto.amc.txt
 Output Set: N:\CRF4\07212003\I661016A.raw

1532 Val Gly Glu Leu Trp Pro Arg Gly Arg Asp Gln Trp Glu Ile Phe Leu
 1533 85 90 95
 1534 Glu His Val Glu Gln Leu Ile Asn Gln Gln Ile Thr Glu Asn Ala Arg
 1535 100 105 110
 1536 Asn Thr Ala Leu Ala Arg Leu Gln Gly Leu Gly Asp Ser Phe Arg Ala
 1537 115 120 125
 1538 Tyr Gln Gln Ser Leu Glu Asp Trp Leu Glu Asn Arg Asp Asp Ala Arg
 1539 130 135 140
 1540 Thr Arg Ser Val Leu His Thr Gln Tyr Ile Ala Leu Gln Leu Asp Phe
 1541 145 150 155 160
 1542 Leu Asn Ala Met Pro Leu Phe Ala Ile Arg Asn Gln Gln Val Phe Leu
 1543 165 170 175
 1544 Leu Met Val Tyr Ala Gln Ala Ala Asn Leu His Leu Leu Leu Arg
 1545 180 185 190
 1546 Asp Ala Ser Leu Phe Gly Ser Gln Phe Gly Leu Thr Ser Gln Glu Ile
 1547 195 200 205
 1548 Gln Arg Tyr Tyr Glu Arg Gln Val Glu Arg Thr Arg Asp Tyr Ser Asp
 1549 210 215 220
 1550 Tyr Cys Val Glu Trp Tyr Asn Thr Gly Leu Asn Ser Leu Arg Gly Thr
 1551 225 230 235 240
 1552 Asn Ala Ala Ser Trp Val Arg Tyr Asn Gln Phe Arg Arg Asp Leu Thr
 1553 245 250 255
 1554 Leu Gly Val Leu Asp Leu Val Ala Leu Phe Pro Ser Tyr Asp Thr Arg
 1555 260 265 270
 1556 Thr Tyr Pro Ile Asn Thr Ser Ala Gln Leu Thr Arg Glu Val Tyr Thr
 1557 275 280 285
 1558 Asp Ala Ile Gly Ala Thr Gly Val Asn Met Ala Ser Met Asn Trp Tyr
 1559 290 295 300
 1560 Asn Asn Asn Ala Pro Ser Phe Ser Ala Ile Gln Ala Ala Ala Ile Arg
 1561 305 310 315 320
 1562 Ser Pro His Leu Leu Asp Phe Leu Glu Gln Leu Thr Ile Phe Ser Ala
 1563 325 330 335
 1564 Ser Ser Arg Trp Ser Asn Thr Arg His Met Thr Tyr Trp Arg Gly His
 1565 340 345 350
 1566 Thr Ile Gln Ser Arg Pro Ile Gly Gly Leu Asn Thr Ser Thr His
 1567 355 360 365
 1568 Gly Ala Thr Asn Thr Ser Ile Asn Pro Val Thr Leu Arg Phe Ala Ser
 1569 370 375 380
 1570 Arg Asp Val Tyr Arg Thr Glu Ser Tyr Ala Gly Val Leu Trp Gly
 1571 385 390 395 400
 1572 Ile Tyr Leu Gln Pro Ile His Gly Val Pro Thr Val Arg Phe Asn Phe
 1573 405 410 415
 1574 Thr Asn Pro Gln Asn Ile Ser Asp Arg Gly Thr Ala Asn Tyr Ser Gln
 1575 420 425 430
 1576 Pro Tyr Glu Ser Pro Gly Leu Gln Leu Lys Asp Ser Glu Thr Glu Leu
 1577 435 440 445
 1578 Pro Pro Glu Thr Thr Glu Arg Pro Asn Tyr Glu Ser Tyr Ser His Arg
 1579 455 460
 1580 Leu Ser His Ile Gly Ile Leu Gln Ser Arg Val Asn Val Pro Val

RAW SEQUENCE LISTING

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Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

1629	465	470	475	480
1630	Tyr Ser Trp Thr His Arg Ser Ala Asp Arg Thr Asn Thr Ile Gly Pro			
1631	485	490	495	
1632	Asn Arg Ile Thr Gln Ile Pro Met Val Lys Ala Ser Glu Leu Pro Gln			
1633	500	505	510	
1634	Gly Thr Thr Val Val Arg Gly Pro Gly Phe Thr Gly Gly Asp Ile Leu			
1635	515	520	525	
1636	Arg Arg Thr Asn Thr Gly Gly Phe Gly Pro Ile Arg Val Thr Val Asn			
1637	530	535	540	
1638	Gly Pro Leu Thr Gln Arg Tyr Arg Ile Gly Phe Arg Tyr Ala Ser Thr			
1639	545	550	555	560
1640	Val Asp Phe Asp Phe Val Ser Arg Gly Gly Thr Thr Val Asn Asn			
1641	565	570	575	
1642	Phe Arg Phe Leu Arg Thr Met Asn Ser Gly Asp Glu Leu Lys Tyr Gly			
1643	580	585	590	
1644	Asn Phe Val Arg Arg Ala Phe Thr Tyr Pro Phe Thr Phe Thr Gln Ile			
1645	595	600	605	
1646	Gln Asp Ile Ile Arg Thr Ser Ile Gln Gly Leu Ser Gly Asn Gly Glu			
1647	610	615	620	
1648	Val Tyr Ile Asp Lys Ile Glu Ile Ile Pro Val Thr Ala Thr Phe Glu			
1649	625	630	635	640
1650	Ala Glu Tyr Asp Leu Glu Arg Ala Gln Glu Ala Val Asn Ala Leu Phe			
1651	645	650	655	
1652	Thr Asn Thr Asn Pro Arg Arg Ile Lys Thr Asp Val Thr Asp Tyr His			
1653	660	665	670	
1654	Ile Asp Gln Val Ser Asn Leu Val Ala Cys Leu Ser Asp Glu Phe Cys			
1655	675	680	685	
1656	Leu Asp Glu Lys Arg Glu Leu Leu Glu Lys Val Lys Tyr Ala Lys Arg			
1657	690	695	700	
1658	Leu Ser Asp Glu Arg Asn Leu Leu Glu Asp Pro Asn Phe Thr Ser Ile			
1659	705	710	715	720
1660	Asn Lys Gln Pro Asp Phe Ile Ser Thr Asn Glu Gln Ser Asn Phe Thr			
1661	725	730	735	740
1662	Ser Ile His Glu Gln Ser Gln His Gly Trp Trp Gly Ser Glu Asn Ile			
1663	740	745	750	
1664	Thr Ile Gln Glu Gly Asn Asp Val Phe Lys Glu Asn Tyr Val Thr Leu			
1665	755	760	765	
1666	Pro Gly Thr Phe Asn Glu Cys Tyr Pro Thr Tyr Leu Tyr Gln Lys Ile			
1667	770	775	780	
1668	Gly Glu Ser Glu Leu Lys Ala Tyr Thr Arg Tyr Gln Leu Arg Gly Tyr			
1669	785	790	795	800
1670	Ile Glu Asp Ser Gln Asp Leu Glu Ile Tyr Leu Ile Arg Tyr Asn Ala			
1671	805	810	815	
1672	Lys His Glu Thr Leu Asp Val Pro Gly Thr Glu Ser Leu Trp Pro Leu			
1673	820	825	830	
1674	Ser Val Glu Ser Pro Ile Gly Arg Cys Gly Glu Pro Asn Arg Cys Ala			
1675	835	840	845	
1676	Pro His Phe Glu Trp Asn Pro Asp Leu Asp Cys Ser Cys Arg Asp Gly			
1677	850	855	860	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,016A

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Input Set : A:\pto.amc.txt
Output Set: N:\CRF4\07212003\I661016A.raw

1723	Glu Lys Cys Ala His His Ser His His Phe Ser Leu Asp Ile Asp Val			
1724	865	870	875	880
1725	Gly Cys Thr Asp Leu His Glu Asn Leu Gly Val Trp Val Val Phe Lys			
1726	985	990	995	995
1727	Ile Ly. Thr Gln Glu Gly His Ala Arg Leu Gly Asn Leu Glu Phe Ile			
1728	906	905	910	
1729	Glu Gln Lys Pro Leu Leu Gly Glu Ala Leu Ser Arg Val Lys Arg Ala			
1730	915	920	925	
1731	Glu Lys Lys Trp Arg Asp Lys Arg Glu Lys Leu Gln Leu Glu Thr Lys			
1732	930	935	940	
1733	Arg Val Tyr Thr Glu Ala Lys Glu Ala Val Asp Ala Leu Phe Val Asp			
1734	945	950	955	960
1735	Ser Gln Tyr Asp Arg Leu Gln Ala Asp Thr Asn Ile Gly Met Ile His			
1736	965	970	975	
1737	Ala Ala Asp Lys Leu Val His Arg Ile Arg Glu Ala Tyr Leu Ser Glu			
1738	985	985	990	
1739	Leu Pro Val Ile Pro Gly Val Asn Ala Glu Ile Phe Glu Glu Leu Glu			
1740	995	1000	1005	
1741	Gly His Ile Ile Thr Ala Ile Ser Leu Tyr Asp Ala Arg Asn Val			
1742	1010	1015	1020	
1743	Val Lys Asn Gly Asp Phe Asn Asn Gly Leu Thr Cys Trp Asn Val			
1744	1035	1040	1045	
1745	Lys G.y His Val Asp Val Gln Gln Ser His His Arg Ser Asp Leu			
1746	1046	1045	1050	
1747	Val Ile Pro Glu Trp Glu Ala Glu Val Ser Gln Ala Val Arg Val			
1748	1055	1060	1065	
1749	Cys Pro Gly Cys Gly Tyr Ile Leu Arg Val Thr Ala Tyr Lys Glu			
1750	1070	1075	1080	
1751	Gly Tyr Gly Glu Gly Cys Val Thr Ile His Glu Ile Glu Asn Asn			
1752	1085	1090	1095	
1753	Thr Asp Glu Leu Lys Phe Lys Asn Arg Glu Glu Gln Glu Val Tyr			
1754	1100	1105	1110	
1755	Pro Thr Asp Thr Gly Thr Cys Asn Asp Tyr Thr Ala His Gln Gly			
1756	1115	1120	1125	
1757	Thr Ala Gly Cys Ala Asp Ala Cys Asn Ser Arg Asn Ala Gly Tyr			
1758	1130	1135	1140	
1759	Glu Asp Ala Tyr Glu Val Asp Thr Thr Ala Ser Val Asn Tyr Lys			
1760	1145	1150	1155	
1761	Pro Thr Tyr Glu Glu Glu Thr Tyr Thr Asp Val Asp Arg Asp Asn			
1762	1160	1165	1170	
1763	His Cys Glu Tyr Asp Arg Gly Tyr Val Asn Tyr Pro Pro Val Pro			
1764	1175	1180	1185	
1765	Ala Gly Tyr Val Thr Lys Glu Leu Glu Tyr Phe Pro Glu Thr Asp			
1766	1190	1195	1200	
1767	Thr Val Trp Ile Glu Ile Gly Glu Thr Glu Gly Lys Phe Ile Val			
1768	1205	1210	1215	
1769	Asp Ser Val Glu Leu Leu Ile Met Glu Glu			
1770	1220	1225		

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/661,016A

DATE: 07/21/2003

TIME: 14:07:38

Input Set : A:\pto.amc.txt

Output Set: N:\CRF4\07212003\I661016A.raw

L:13 M:28 W: Missing Blank Line separator, <140> field identifier
L:13 M:27 C: Current Application Number differs, Replaced Current Application Number
L:15 M:27 C: Current Filing Date differs, Replaced Current Filing Date
L:592 M:3-2 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:943 M:3-6 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7
L:1149 M:33 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
M:332 Repeated in SeqNo=8
L:1182 M:11 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 1
L:1191 M:11 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:1 differs:9
L:1510 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:2 differs:10
L:23 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (8) Counted (10)